

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number  
**WO 2004/066615 A1**

(51) International Patent Classification<sup>7</sup>: H04N 5/225,  
7/14, H04M 1/725, H04N 5/232, H04M 1/247

WALSTIJN, Bartholomeus, Gerardus, Gosewinus  
[NL/DK]; Parkovsvej 3, DK-2820 Gentofte (DK).

(21) International Application Number:  
PCT/EP2003/000607

(74) Agent: VAN WALSTIJN, B., Gerard, G.; Walstijn In-  
tellectual Property ApS, Parkovsvej 3, DK-2820 Gentofte  
(DK).

(22) International Filing Date: 22 January 2003 (22.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): NOKIA  
CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150  
Espoo (FI).

(81) Designated States (national): AE, AG, AL, AM, AT (util-  
ity model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,  
CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (util-  
ity model), DE, DK (utility model), DK, DM, DZ, EC, EE  
(utility model), EE, ES, FI (utility model), FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,  
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,  
MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

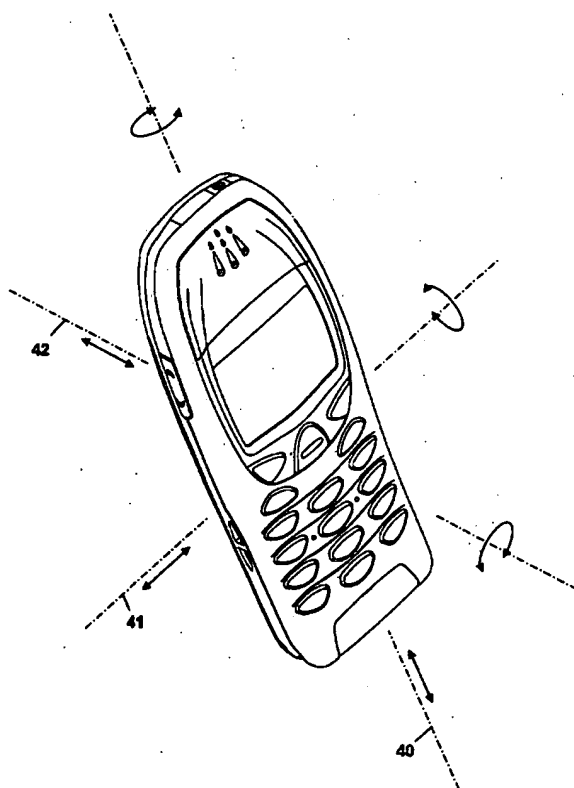
(72) Inventors; and

(75) Inventors/Applicants (for US only): SYRBE, Hanno  
[DE/DE]; Buchenweg 23, 89197 Weidenstetten (DE).  
KRISCHEU, Klaus [DE/DE]; Wiesenweg 9, 89160  
Tomerdingen (DE). KOIVUNEN, Rami, Arto [FI/FI];  
Munstenpellonkatu 7 B 11, FIN-20740 Turku (FI). VAN

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: IMAGE CONTROL



(57) Abstract: The present invention relates to the  
field of hand-held devices that are equipped wit a  
processor and a digital camera for capturing motion  
video or still images. Images captured by the cam-  
era are used to determine motion of the hand-held  
device. A resulting motion signal is used as input to  
a user interface. Displayed images can be scrolled,  
zoomed or rotated by moving the hand-held device.  
The motion signal can also be used as input for a  
graphical user interface to move a cursor or other  
object of the graphical user interface over the dis-  
play. The invention relates further to a hand-held  
device provided with means for sensing motion, a  
display, a keypad with at least a first- and a second  
key, and a graphical user interface with objects and a  
cursor. The hand-held device also comprises means  
for transforming the sensed motion of the handheld  
device into a signal suitable for moving the cursor  
over the display.

WO 2004/066615 A1

BEST AVAILABLE COPY